# Electrical Power & Energy Systems

## Index to

## Volume 5: 1983

# Author


**Amelink, H and Hoffmann, A G** Current trends in control centre design 205
**Arapostathis, A and Varaiya, P** Behaviour of three-node power networks 22
**Asal, H P** Information exchange between control centres in the West European high-voltage grid 236
**Auge, J, Broussolle, F, Le Roy, A and Merlin, A** Decision-making tools for real-time control of French EHV power system 212
**Bárcia, P and Baptista, J** Computation of steady-state equivalents for electrical networks 17
**Brandão, A F** Probability approach to installation studies of power transformers 173
**Caramanis, M, Stremel, J, Fleck, W and Daniel, S** Probabilistic production costing: an investigation of alternative algorithms 75
**Clancy, D P, Gross, G and Wu, F F** Probabilistic flows for reliability evaluation of multiarea power system interconnections 101
**Di, Caprio, U** Theoretical and practical dynamic equivalents in multimachine power systems. Part 2: Construction of practical equivalent 40
**Ernoult, M, Mattatia, R, Meslier, F and Rabut, P** Estimation of the sensitivity of the electrical energy demand to variations in meteorological conditions: history of methods and development of new approaches at EDF 189
**Feintuch, P** Power system expansion planning at EDF 115
**Ghafurian, A** Application of coherency and reduced order models to transient stability studies 145
**Hamoud, G and Billinton, R** Parameter uncertainty in generating capacity reliability evaluation 149
**Hubbi, W and Refsum, A** Starting algorithm and modification for Newton–Raphson load-flow method 166
**Humpage, W D, Wong, K P and Nguyen, T T** Z-function convolution in EHV power network electromagnetic transient analysis 31
**Jocić, Lj B, Cretcher, C K and Trygar, T A** Framework for power network analysis 182
**Lehman, R and Mattioni, J** Database methods in power system control centres 241
**Liu, C** Laboratory verification of an excitation control system for increasing power transfer capability 127
**Malik, O P, Hope, G S, Gorski, Ju M and Ushakov, V A** Results of tests on microprocessor-based voltage and speed regulators carried out on a large physical model complex 61
**Malik, O P, Hope, G S and Sheirah, M A H** Application of selftuning regulator algorithm to generating unit controllers 159
**Moslehi, K and Wu, F F** Direct method for evaluation of bulk power system reliability. Part 1: Theoretical foundation 3
**Moslehi, K and Wu, F F** Direct method for evaluation of bulk power system reliability. Part 2: Solution algorithm 8
**Nagdy, N M and Rumpel, D** Methods of potential network topology description 55
**Nassar, M and Gruber, S** Probabilistic production cost model for a power system with storage 87
**Pai, M A and Vittal, V** Multimachine stability analysis using vector Lyapunov functions with inertial-centre decomposition 139
**Sekine, Y and Kurihara, I** UHV shunt reactor for secondary arc extinction on multiphase reclosing 247
**Wu, F F and Monticelli, A** Critical review of external network modelling for online security analysis 222
**Yamayee, Z A and Ma, F S** Effect of size and location of conventional and intermittent generation on system reliability 94
**Zepeda, E A, Price, D H R and Sharp, J A** Policy analysis model of a large electrical supply system 121


# Title


Application of coherency and reduced order models to transient stability studies **Ghafurian, A** 145
Application of selftuning regulator algorithm to generating unit controllers **Malik, O P, Hope, G S and Sheirah, M A H** 159
Behaviour of three-node power networks **Arapostathis, A and Varaiya, P** 22
Computation of steady-state equivalents for electrical networks **Bárcia, P and Baptista, J** 17
Critical review of external network modelling for online security analysis **Wu, F F and Monticelli, A** 222
Current trends in control centre design **Amelink, A and Hoffmann, A G** 205
Database methods in power system control centres **Lehman, R and Mattioni, J** 241
Decision-making tools for real-time control of French EHV power system **Auge, J, Broussolle, F, Le Roy, A and Merlin, A** 212
Direct method for evaluation of bulk power system reliability. Part 1: Theoretical foundation **Moslehi, K and Wu, F F** 3
Direct method for evaluation of bulk power system reliability. Part 2: Solution algorithm **Moslehi, K and Wu, F F** 8
Effect of size and location of conventional and intermittent generation on system reliability **Yamayee, Z A and Ma, F S** 94
Estimation of the sensitivity of the electrical energy demand to variations in meteorological conditions: history of methods and development of new approaches at EDF **Ernoult, M, Mattatia, R, Meslier, F and Rabut, P** 189
Framework for power network analysis **Jocić, Lj B, Cretcher, C K and Trygar, T A** 182
Information exchange between control centres in the West European high-voltage grid **Asal, H P** 236
Laboratory verification of an excitation control system for increasing power transfer capability **Liu, C** 127
Methods of potential network topology description **Nagdy, N M and Rumpel, D** 55
Multimachine stability analysis using vector Lyapunov functions with inertial-centre decomposition **Pai, M A and Vittal, V** 139
Parameter uncertainty in generating capacity reliability evaluation **Hamoud, G and Billinton, R** 149
Policy analysis model of a large electrical supply system **Zepeda, E A, Price, D H R and Sharp, J A** 121
Power system expansion planning at EDF **Feintuch, P** 115
Probabilistic flows for reliability evaluation of multiarea power system interconnections **Clancy, D P, Gross, G and Wu, F F** 101
Probabilistic production costing: an investigation of alternative algorithms **Caramanis, M, Stremel, J, Fleck, W and Daniel, S** 75
Probabilistic production cost model for a power system with storage **Nassar, M and Gruber, S** 87
Probability approach to installation studies of power transformers **Brandão, A F** 173
Results of tests on microprocessor-based voltage and speed regulators carried out on a large physical model complex **Malik, O P, Hope, G S, Gorski, Ju M and Ushakov, V A** 61
Starting algorithm and modification for Newton–Raphson load-flow method **Hubbi, W and Refsum, A** 166
Theoretical and practical dynamic equivalents in multimachine power systems. Part 2: Construction of practical equivalent **Di Caprio, U** 40
UHV shunt reactor for secondary arc extinction on multiphase reclosing **Sekine, Y and Kurihara, I** 247
Z-function convolution in EHV power network electromagnetic transient analysis **Humpage, W D, Wong, K P and Nguyen, T T** 31


# Subject


**CALENDAR** 72, 136, 200, 262

**EDITORIAL**
Power system control centres 203

**PUBLICATIONS**
Electric power systems: design and analysis **El-Hawary, M E** 261